

ABSTRACT OF THE DISCLOSURE

To improve a dental diamond bur used in clinical dental treatments and in dental laboratories for cutting and shaving natural teeth and dental prostheses such as dental fillings, dentures and artificial teeth by making it more difficult for the cutting debris to entangle on the bur and also make the bur superior in debris removal easiness and cutting feelings, a dental diamond bur is structured such that diamond grains having an average diameter of 0.01 to 50 μm are attached to the head of the bur body by a plated metal layer containing fluorine compound grains that are almost uniformly dispersed and have an average diameter smaller than that of the diamond grains, the volume fraction of fluorine compound grains in the plated metal layer being desirably 0.1 to 60 % and, when the plated metal layer is a plated nickel layer, the plated metal layer desirably further containing 0.1 to 15 % by weight of a phosphorus compound.